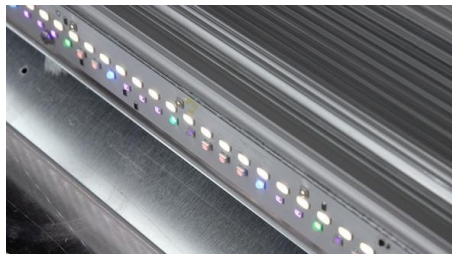


LED light sources are increasingly being used in general lighting, either as retrofits or as replacements for conventional light sources, such as fluorescent, halogen or incandescent lamps. The challenge this presents is that the spectral distribution of LEDs differs substantially from that of all other light sources and, as a result, alters the visual perception of colours as seen by the human eye.



JUST Digital Light Systems (DLS) has succeeded in making LED-based lighting uniform and stable in both the short and long term, providing a high-performance, cost-effective and standards-compliant solution.

Typically, standard LEDs and LED tubes are unable to emit uniform and stable light over the long term, a problem exacerbated by fluctuations in LED manufacturing quality.

JUST's LED-based luminaires produce light of the highest quality that remains stable over the long term, thanks to a patented multi-stage calibration process, the selection of the finest light-emitting diodes and LED drivers—all of which are subject to sophisticated quality control processes.

Discover the latest innovation in colour verification lighting with our **DLS v8** colour display light. The optimised control system makes LED-based evaluation much simpler. In addition to the D50, D65 and UV-A light sources, two specific light sources can be added to the DLS v8 colour display light, depending on the customer's requirements. Furthermore, the UV component can be switched on or off, and stored verification settings can be easily activated or deactivated at the touch of a button.



High-performance LED viewing light with:

- unrivalled light distribution
- high uniformity and optimal spectral characteristics
- CAD-based prismatic diffuser with no shadows or glare
- expected service life of 50,000 hours
- maintenance-free; no tube replacement required
- 5 LED light sources in accordance with:
- **D50** ISO 23603, CIE S 012, [ISO 3664](#)
- **D65** ISO 23603, CIE S 012, [ISO 3668](#)
- **ALT1**: select [CIE 15:2018](#) B1 (2733K), B2 (2998K) or B3 (4103K)
- **ALT2**: select [CIE 15:2018](#) B1 (2733K), B2 (2998K) or B3 (4103K)
- **UV-A**

- Exact colour coordinates D50/D65
- Low metamerism index in the visible range: ≤ 0.8 (Mlvis)
- Low metamerism index in the UV range: ≤ 0.6 (Ml_{uv})
- Mixed light function
- D50/D65 Continuous adjustment
- D50/D65 on/off UV content
- USB interface
- Memory function for presets
- Programmable light sequences
- US Patent No. US 8,592,748,B2

DLS Colour Viewing Light v8

Asymmetrical light design for viewing from the side (fixed viewing position).

Minimal reflection and glare.

UV deactivation for assessment in accordance with the former ISO 3664

standard. 4 sizes: S / L / XL / XXL.



USB interface for connection to a PC. The light sources are dimmable.

Multiple light sources can be selected simultaneously. Different lighting sequences can be programmed.

Applications

- 2D For flat samples, such as paper, fabrics and coatings.
- 3D For viewing 3D samples made from different materials.
- Good detection of metamerism thanks to multiple light sources.
- For particularly large and flat samples.

Light Source Characteristics



Features



Applications



DLS Colour Viewing Light v8 | S



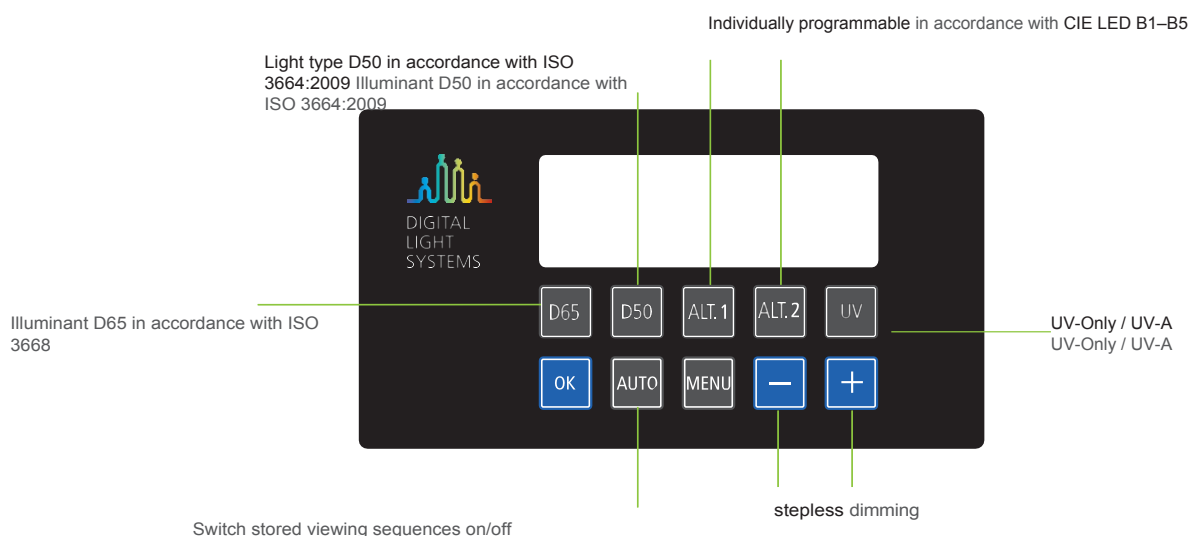
LED-based viewing booth, standard light luminaires D50, D65, UV-A and 2 alternatives



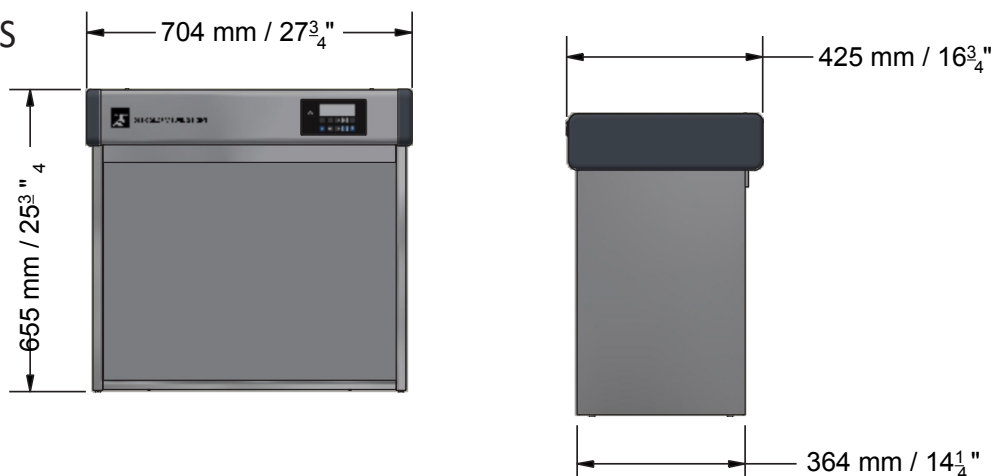
- LED-based viewing booth
- Item No.: 203278/ 203279*

LED CONTROL

- Easy and intuitive operation
- External control available as an option (Item No. 203029)
- ALT1 and ALT2 are pre-programmed according to the request
- Mixed light function – several types of light can be selected simultaneously



DIMENSIONS



* Data for the US version of the product

TECHNICAL

DATA

Electrical data	
Maximum electrical power	80 W
Operating power	33 W
Operating voltage	230 V / 110 V*
Frequency	50 / 60 Hz
Connection cable	power cable, angle plug type 303 to IEC socket type 601 / NEMA 5-15P Male*
Maximum continuous current (continuous operation)	0.3 A / 0.7 A*
Operating mode	S1: Continuous operation
Expected service life (continuous operation)	>50,000 h

Photometric data and colourimetric characteristics	
Illuminant types	CIE D50 (5,000 K), CIE D65 (6,500 K), UV-ONLY (UV-A), CIE B1–B5 (2,733–6,598 K / Ra=80)
Ra (Colour Rendering Index) ø	>95
Metamerism Index (visible range)	≤ 0.8
Metamerism Index (UV range)	≤ 0.6
Chromaticity error	<0.002
Chromaticity coordinate (10°)	D50: x = 0.3478 y = 0.3595 (≤ 0.002) D65: x = 0.3138 y = 0.3309 (≤ 0.002)
Dominant wavelength (UV-ONLY)	365 nm
Radiant power (UV-ONLY)	6 W
Risk assessment in accordance with DIN-EN-62471	D65+UV / D50+UV: RG0 UV-ONLY: RG1

Mechanical data	
Illumination area (WxD)	64 x 36 cm / 25 1/4" x 14 1/8"
External dimensions (WxHxD)	70 x 71 x 43 cm / 27 1/2" x 28" x 16 7/8"
Product weight	12 kg
Housing	Aluminium
Lens	special prismatic lens, UV-transmissive
Protection class	IP 52
Permitted ambient temperature	0°C – 40°C / 32°F – 104°F

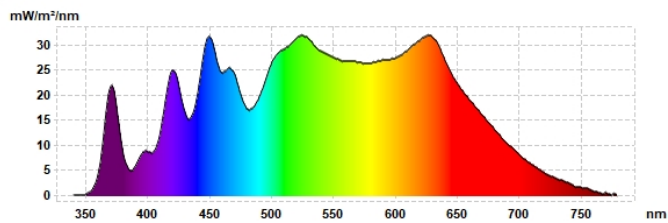
Environmental benefits (compared to conventional fluorescent lamps)	
CO ₂ savings	over 17 tonnes

* Data for the US version of the product

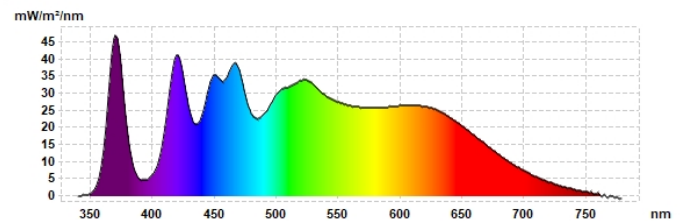


SPECTRES

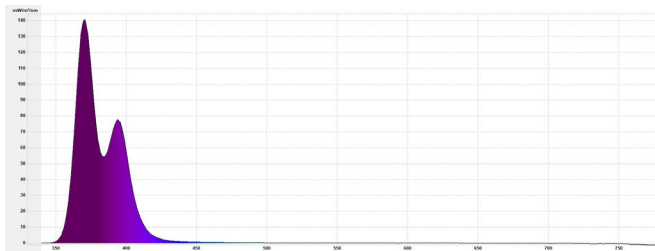
Spectrum DLS Colour Viewing Light D50



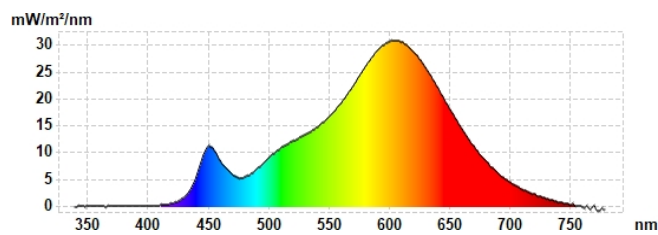
Spectrum DLS Colour Viewing Light D65



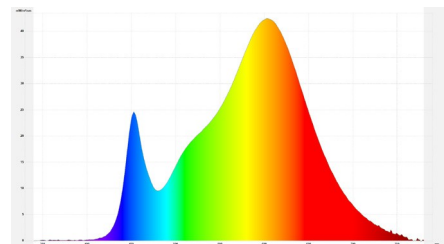
Spectrum UV-A (UV-Only)



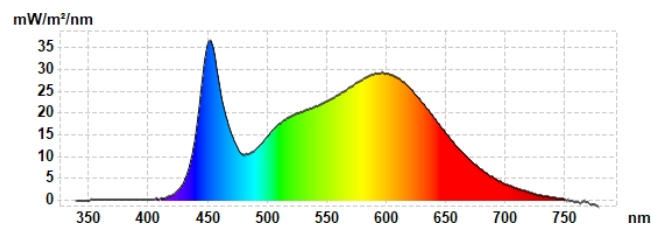
Spectrum DLS Colour Viewing Light CIE B1



Spectrum DLS Colour Viewing Light CIE B2



Spectrum DLS Colour Viewing Light CIE B3



* Data for the US version of the product



DLS Colour Viewing Light v8 | L



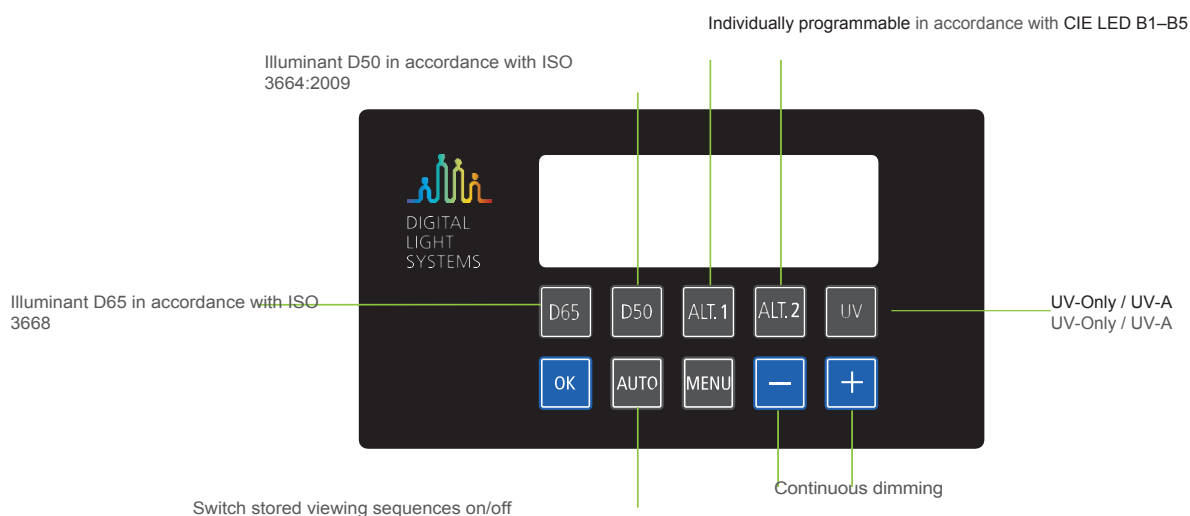
LED-based viewing booth, standard light luminaires D50, D65, UV-A and 2 alternatives



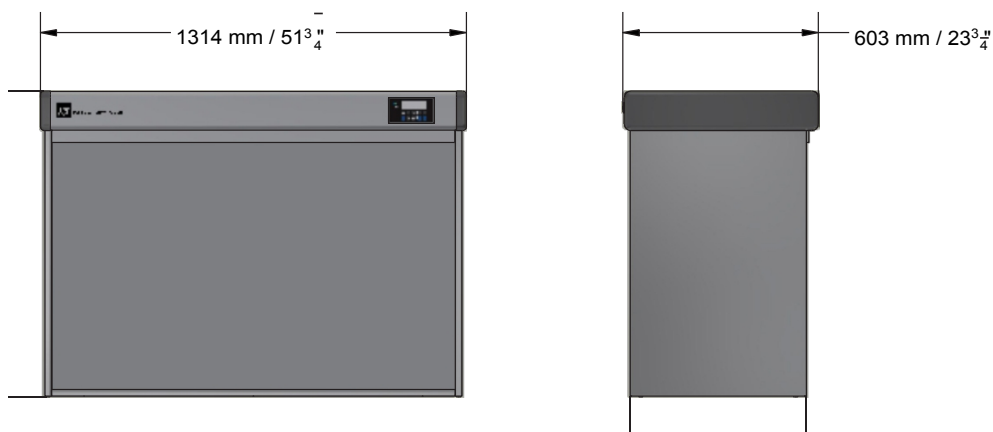
- LED-based viewing booth
- Item No.: 203280/ 203281*

LED CONTROL

- Easy and intuitive operation
- External control available as an option (Item No. 203029)
- ALT1 and ALT2 are pre-programmed according to the request
- Mixed light function – several types of light can be selected simultaneously



DIMENSIONS



* Data for the US version of the product

TECHNICAL

DATA

Electrical data	
Maximum electrical power	183 W
Operating power	170 W
Operating voltage	230 V / 110 V*
Frequency	50 / 60 Hz
Connection cable	power cable, angle plug type 303 to IEC socket type 601 / NEMA 5-15P Male*
Maximum continuous current (continuous operation)	0.8 A / 1.7 A*
Operating mode	S1: Continuous operation
Expected service life (continuous operation)	>50,000 h

Photometric data and colourimetric characteristics	
Illuminant types	CIE D50 (5,000 K), CIE D65 (6,500 K), UV-ONLY (UV-A), CIE B1–B5 (2,733–6,598 K / Ra=80)
Ra (Colour Rendering Index) ø	>95
Metamerism Index (visible range)	≤ 0.8
Metamerism Index (UV range)	≤ 0.6
Chromaticity error	<0.002
Chromaticity coordinate (10°)	D50: x = 0.3478 y = 0.3595 (≤ 0.002) D65: x = 0.3138 y = 0.3309 (≤ 0.002)
Dominant wavelength (UV-ONLY)	365 nm
Radiant power (UV-ONLY)	6 W
Risk assessment in accordance with DIN-EN-62471	D65+UV / D50+UV: RG0 UV-ONLY: RG1

Mechanical data	
Illumination area (WxD)	125 x 54 cm 49 1/4" x 21 1/4"*
External dimensions (WxHxD)	132 x 97 x 60 cm 52" x 38 1/4" x 23 5/8"*
Product weight	31 kg 68.3 lbs
Housing	Aluminium
Lens	special prismatic lens, UV-transmissive
Protection class	IP 52
Permitted ambient temperature	0°C – 40°C / 32°F – 104°F

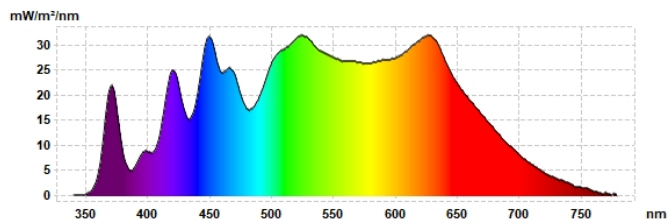
Environmental benefits (compared to conventional fluorescent lamps)	
CO ₂ savings	over 17 tonnes

* Data for the US version of the product

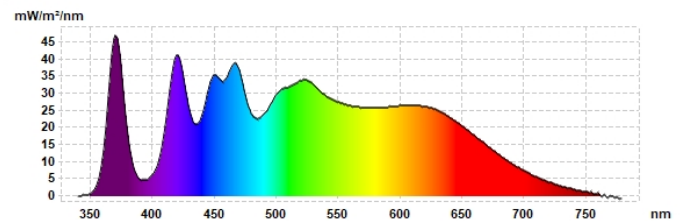


SPECTRES

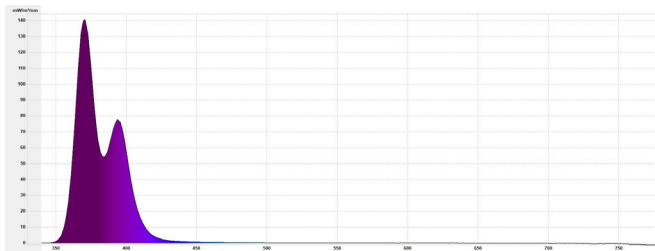
Spectrum DLS Colour Viewing Light D50



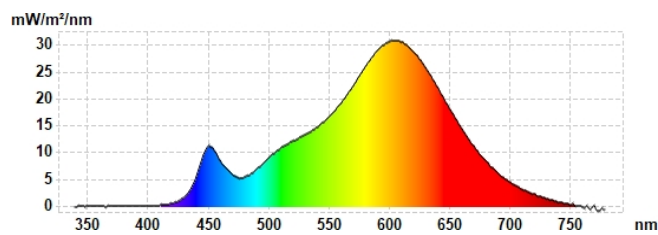
Spectrum DLS Colour Viewing Light D65



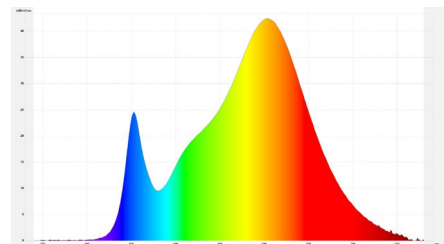
Spectrum UV-A (UV-Only)



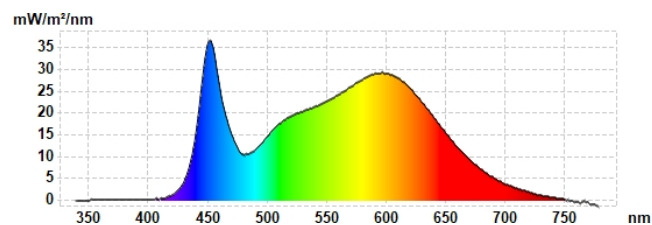
Spectrum DLS Colour Viewing Light CIE B1



Spectrum DLS Colour Viewing Light CIE B2



Spectrum DLS Colour Viewing Light CIE B3



* Data for the US version of the product



DLS Colour Viewing Light v8 | XL

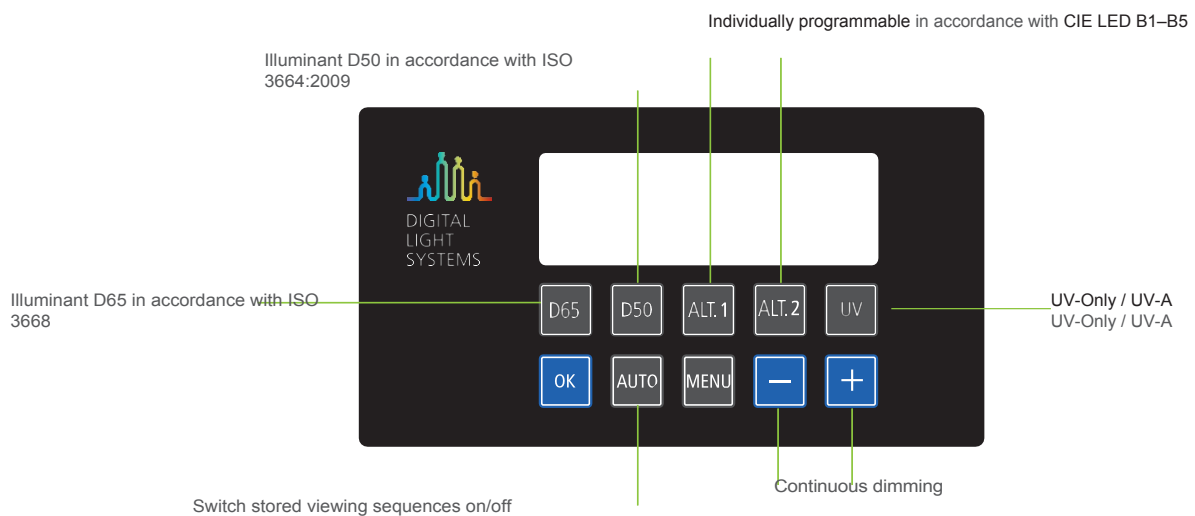
LED-based viewing booth, standard light luminaires D50, D65, UV-A and 2 alternatives



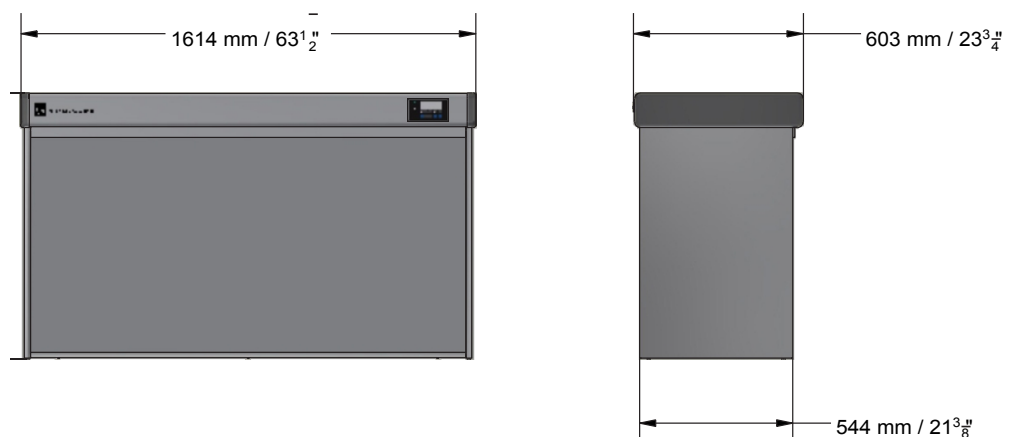
- LED-based viewing booth
- Item No.: 203282/ 203283*

LED CONTROL

- Easy and intuitive operation
- External control available as an option (Item No. 203029)
- ALT1 and ALT2 are pre-programmed according to the request
- Mixed light function – several types of light can be selected simultaneously



DIMENSIONS



* Data for the US version of the product

TECHNICAL

DATA

Electrical data	
Maximum electrical power	205 W
Electrical operating power	190 W
Operating voltage	230 V / 110 V*
Frequency	50 / 60 Hz
Connection cable	power cable, angle plug type 303 to IEC socket type 601 / NEMA 5-15P Male*
Maximum continuous current (continuous operation)	0.9 A / 1.9 A*
Operating mode	S1: Continuous operation
Expected service life (continuous operation)	>50,000 h

Photometric data and colourimetric characteristics	
Illuminant types	CIE D50 (5,000 K), CIE D65 (6,500 K), UV-ONLY (UV-A), CIE B1–B5 (2,733–6,598 K / Ra=80)
Ra (Colour Rendering Index) $\varnothing$	>95
Metamerism Index (visible range)	≤ 0.8
Metamerism Index (UV range)	≤ 0.6
Chromaticity error	<0.002
Chromaticity coordinates (10°)	D50: x = 0.3478 y = 0.3595 (≤ 0.002) D65: x = 0.3138 y = 0.3309 (≤ 0.002)
Dominant wavelength (UV-ONLY)	365 nm
Radiant power (UV-ONLY)	6 W
Risk assessment in accordance with DIN-EN-62471	D65+UV / D50+UV: RG0 UV-ONLY: RG1

Mechanical data	
Illumination area (WxD)	155 x 54 cm 61" x 21 ¹ / ₄ "*
External dimensions (WxHxD)	162 x 95 x 60 cm 63 ³ / ₄ " x 37 ³ / ₈ " x 23 ⁵ / ₈ "**
Product weight	34 kg 75 lbs
Housing	Aluminium
Lens	special prismatic lens, UV-transmissive
Protection class	IP 52
Permitted ambient temperature	0°C – 40°C / 32°F – 104°F

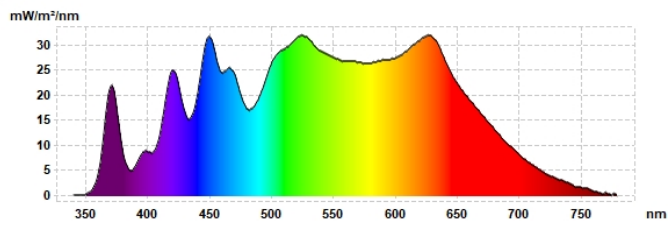
Environmental benefits (compared to conventional fluorescent lamps)	
CO ₂ savings	over 17 tonnes

* Data for the US version of the product

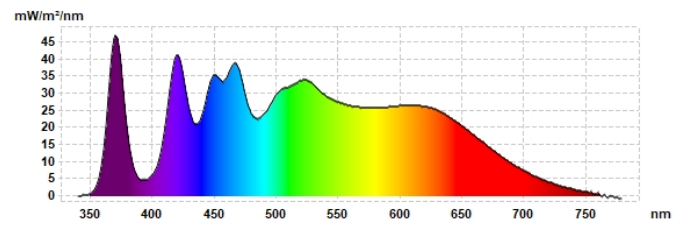


SPECTRES

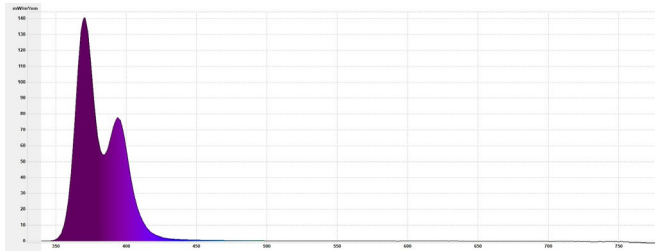
Spectrum DLS Colour Viewing Light D50



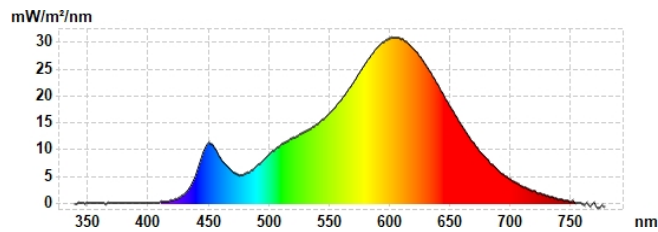
Spectrum DLS Colour Viewing Light D65



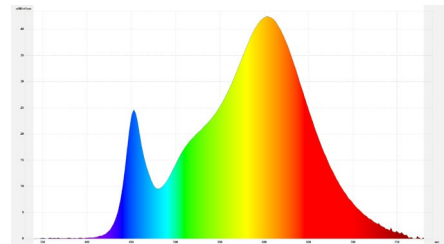
Spectrum UV-A (UV-Only)



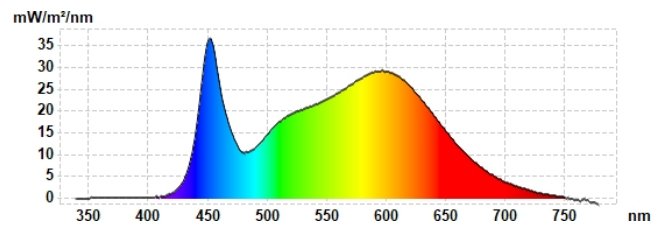
Spectrum DLS Colour Viewing Light CIE B1



Spectrum DLS Colour Viewing Light CIE B2



Spectrum DLS Colour Viewing Light CIE B3



* Data for the US version of the product



DLS Colour Viewing Light v8 | XXL



LED-based viewing booth, standard light fittings D50, D65, UV-A and 2 alternatives

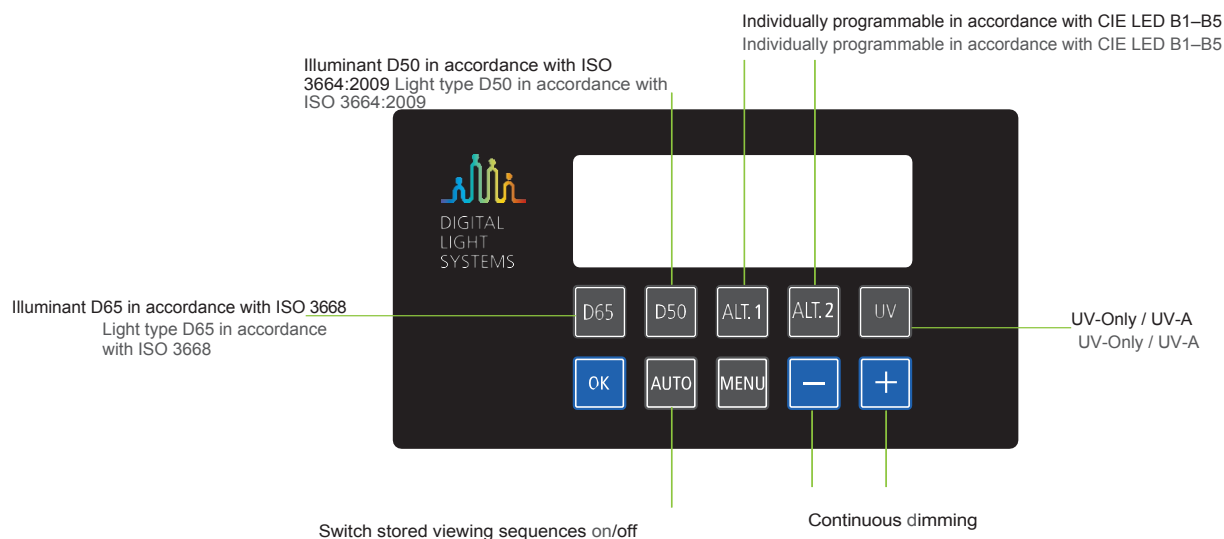


③ LED-based viewing booth

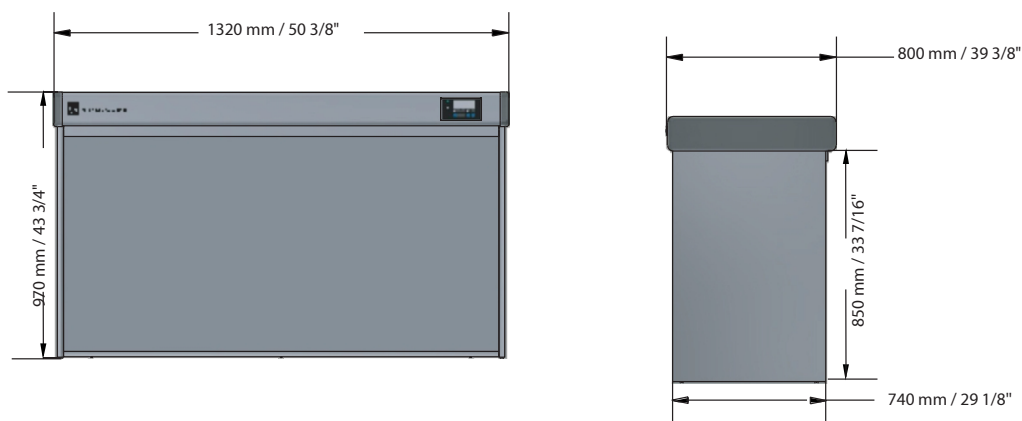
③ Item No.: 203404 / 203405*

LED CONTROL

- ③ Easy and intuitive operation
- ③ External control available as an option (Item No. 203029)
- ③ ALT1 and ALT2 are pre-programmed as requested
- ③ Mixed light function – several types of light can be selected simultaneously



DIMENSIONS



* Data for the US version of the product

TECHNICAL

DATA

Electrical specifications	
Maximum electrical power	320 W
Operating power	300 W
Operating voltage	230 V / 110 V*
Frequency	50 / 60 Hz
Connection cable	power cable, angle plug type 303 to IEC socket type 601 / NEMA 5-15P Male*
Maximum continuous current (continuous operation)	0.4 A / 0.8 A*
Operating mode	S1: Continuous operation
Expected service life (continuous operation)	>50,000 h

Photometric data and colourimetric characteristics	
Illuminant types	CIE D50 (5,000 K), CIE D65 (6,500 K), UV-ONLY (UV-A), CIE B1–B5 (2,733–6,598 K / Ra=80)
Ra (Colour Rendering Index) ø	>95
Metamerism Index (visible range)	≤ 0.8
Metamerism Index (UV range)	≤ 0.6
Chromaticity error	<0.002
Chromaticity coordinates (10°)	D50: x = 0.3478 y = 0.3595 (≤ 0.002) D65: x = 0.3138 y = 0.3309 (≤ 0.002)
Dominant wavelength (UV-ONLY)	365 nm
Radiant power (UV-ONLY)	6 W
Risk assessment in accordance with DIN-EN-62471	D65+UV / D50+UV: RG0 UV-ONLY: RG1

Mechanical data	
Illumination area (WxD)	119 x 74 cm 46 7/8" x 29 1/8"
External dimensions (WxHxD)	128 x 112.2 x 100.5 cm 50 3/8" x 44 1/16" x 39 9/16"
Product weight	65 kg 143.3 lbs
Housing	Aluminium
Lens	special prismatic lens, UV-transmissive
Protection class	IP 52
Permitted ambient temperature	0°C – 40°C / 32°F – 104°F

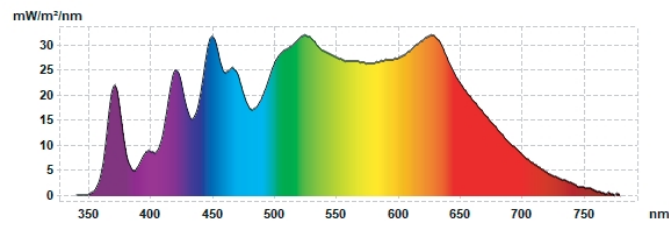
Environmental benefits (compared to conventional fluorescent lamps)	
CO ₂ savings	over 17 tonnes

* Data for the US version of the product

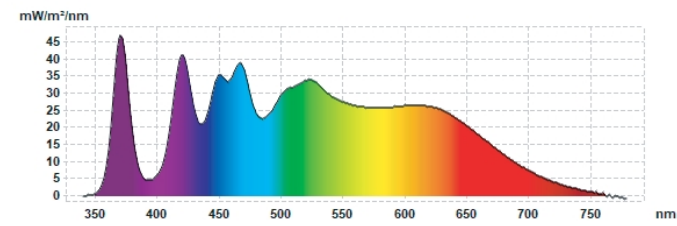


SPECTRES

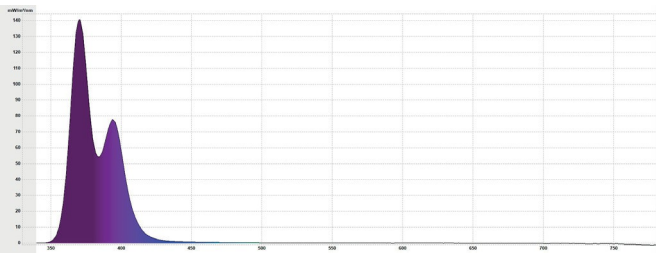
Spectrum DLS Colour Viewing Light D50



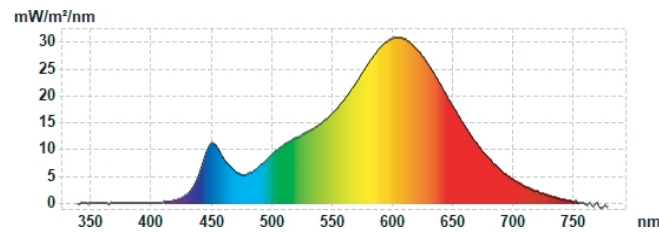
Spectrum DLS Colour Viewing Light D65



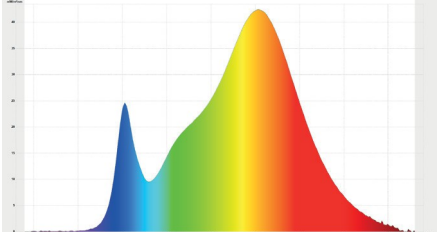
Spectrum UV-A (UV-Only)



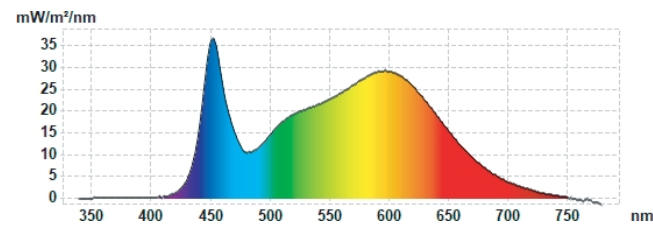
Spectrum DLS Colour Viewing Light CIE B1



Spectrum DLS Colour Viewing Light CIE B2



Spectrum DLS Colour Viewing Light CIE B3



* Data for the US version of the product

